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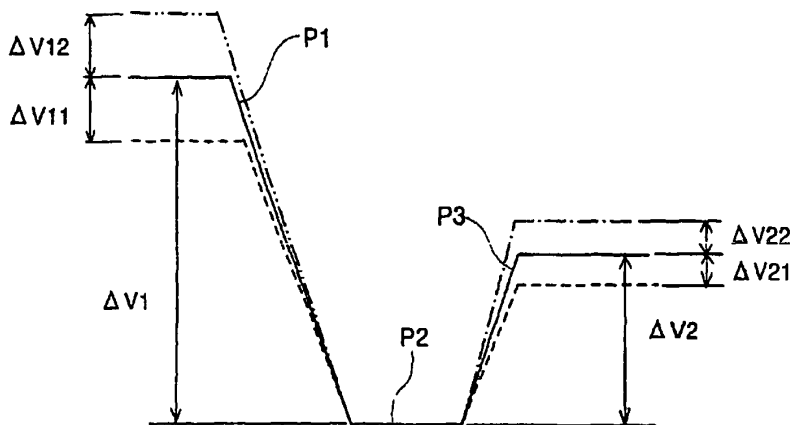
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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: HEAD CONTROLLER, INKJET RECORDING APPARATUS, AND IMAGE RECORDING APPARATUS THAT  
PREVENT DEGRADATION IN IMAGE QUALITY DUE TO ENVIRONMENTAL TEMPERATURE CHANGES



(57) Abstract: A head controller controls pressure creating means for contracting and expanding the volume of a pressurizing compartment communicating with a nozzle of a droplet discharging head. Drive waveform generating means outputs a drive pulse including a first waveform element expanding the compartment, a second waveform element maintaining the expanded state of the compartment, and a third waveform element contracting the compartment so that droplets are discharged. When a first potential difference is a potential difference between the first waveform element at the beginning of the expansion and the second waveform element, and the second potential difference is a potential difference between the third waveform element at the end of the contraction and the second waveform element, the difference between the first and second potential differences is decreased when environmental temperature is higher than a first predetermined temperature, and increased when the temperature is lower than a second predetermined temperature.

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## INTERNATIONAL SEARCH REPORT

International application No.

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## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> B41J 2/045 B41J 2/055

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> B41J 2/045 B41J 2/055

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2003, Japanese Registered Utility Model Gazette 1994-2003, Japanese Gazette Containing the Utility Model 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-205798 A (SEIKO EPSON CORPORATION) 2001.07.31, whole document, Fig.1-11 (Family:none)	1-9
X	JP 11-20164 A (SEIKO EPSON CORPORATION) 1999.01.26, whole document, Fig.1-10 (Family:none)	1-9
PX	JP 2002-240273 A (SEIKO EPSON CORPORATION) 2002.08.28, whole document, Fig.1-11 (Family:none)	1,3,4,6,7,9

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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